

MA 151 Exam 3 Formula Sheet

$$Z = \frac{\bar{X} - \mu_0}{\sigma/\sqrt{n}}$$

$$T = \frac{\bar{X} - \mu_0}{S/\sqrt{n}}$$

$$Z = \frac{\hat{p} - p_0}{\sqrt{\frac{p_0(1-p_0)}{n}}}$$

$$\bar{x} \pm z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$$

$$\bar{x} \pm t_{\alpha/2, \text{df}} \frac{s}{\sqrt{n}}$$

$$\hat{p} \pm z_{\alpha/2} \sqrt{\frac{p(1-p)}{n}}$$